



For Section A-A, see Plan 69535-D
 " " B-B, " " 69536-D
 " " C-C, " " 69537-D
 " " D-D, " " 69538-D

DIAGRAM SHOWING WING WHEEL RISERS

All through bolts shall be 1 3/8" D. with center line of bolts 3 3/4" for 152 lb. P.S. and 3 1/4" for 131 lb. R.E. above base of rail.

Flangeway fillers shall be single groove section and shall be furnished with groove as shown on Plan 69670-B unless design of filler is such that equivalent space is provided.

Surfaces of frog shall be shaped in accordance with requirements of Plan 69638-C.

Body Casting shall be according to Plans 69831-C to 69835-C, inc.

Details of heel rails shall be according to Plan 69605-C.

Planing of base of wing rail shall be according to Plan 69711-B.

For Section E-E, see Plan 69543-C.

For Section H-H, see Plan 69545-C.

Item 66 on Plan 69542, basic no., shall apply to this material.

NOTES:
 Requisition must specify frog number, weight and type of rail design and the number of this plan.
 Body Casting shall be High Manganese or other approved Alloy Steel.
 All rail parts must meet the requirements of No. 1 Rails as prescribed by The Pennsylvania Railroad Company's Specifications for Q.M. Carbon Steel Rails, excluding "A" rails. Such rail parts shall be controlled cooled.
 All bearing surfaces shall be finished to an accurate fit and the bottom bearing of the alloy steel casting, resting on top of bases of all rails, shall be continuous throughout except at bends.
 All bolts and nuts must conform to The Pennsylvania Railroad Company's Specifications for Quenched Carbon and Alloy Steel Track Bolts.
 All through bolts shall be threaded 5-1/2" with U.S.S. threads and shall have A.S.A. Regular square heads and square nuts, helical spring washers and suitable washers to provide square bearing under spring washers and, where necessary, to bring nuts out from under head of rail so that they may be tightened with standard wrench. All such bolts shall be fitted with head locks, which shall provide square bearing under heads of bolts.
 All spring washers shall conform to The Pennsylvania Railroad Company's Specifications for Helical Spring Washers.
 Marker Plate of malleable iron or other approved metal, showing in raised or deeply cut characters, "Pat. 1996718 and 2012807" and, in characters not less than 1/2 inch, the name of the manufacturer, the month of the quarter (i.e., Feb., May, Aug. or Nov.) and year manufactured the frog number and the weight and type of rail, must be securely fastened to each frog in position as indicated on this plan.



THE PENNSYLVANIA RAILROAD

NO. 8 RAIL BOUND MANGANESE STEEL FROG
 FOR 131 LB. R.E. AND 152 LB. P.S. RAILS DRILLED 2 3/4" - 6" - 7"

OFFICE OF CHIEF ENGINEER PHILA., PA., MARCH 1933